



PLOT NO 620, ROAD NO 6, BESIDE PETL GIDC, PANOLI, ANKLESHWAR, GUJARAT 394115  
 Tel: +91- 8999933338 E mail: info@jalaquainternational.com website: [www.jalaquainternational.com](http://www.jalaquainternational.com)

## SAFETY DATA SHEET: QUICK LIME

### SECTION 1: IDENTIFICATION OF THE PRODUCT/COMPANY/UNDERTAKING.

#### 1.1) Identification of the Product.

Identified Product : **QUICK LIME**  
 Synonyms : calcium oxide  
 CAS NO. : 1305-78-8  
 Product form : Powder

#### 1.2) Product Uses

Water treatment, pH adjustment, FGT, Construction, Pulp/Paper.

#### 1.3) Identification of The Company/Undertaking

Manufacturer/supplier  
**JAL AQUA INTERNATIONAL**  
 Plot No 620, Road No 6, Beside PETL GIDC, Panoli, Ankleshwar, Gujarat 394115-India.

#### 1.4) Emergency Contact Details.

**JAL AQUA INTERNATIONAL**  
 Tel: +91 8999933338  
 Email: [info@jalaquainternational.com](mailto:info@jalaquainternational.com)  
 Website: [www.jalaquainternational.com](http://www.jalaquainternational.com)

### SECTION 2: HAZARD IDENTIFICATION

#### 2.1) The product is identified as per dangerous by Globally Harmonized System of Classification and Labelling of Chemicals – GHS (REV.8) (2019)

##### 2.1.1) Health Hazard Classifications:

- |  |             |   |
|--|-------------|---|
| • Skin Irritation.                                 | Category 2  | Causes severe skin burns and eye damage.  |
| • Serious Eye Damage                               | Category 1  | Causes serious eye damage.  |
| • Carcinogenicity                                  | Category 1A | Known to have carcinogenic potential for humans; the placing of the substance is largely based on human evidence. |
| • Specific Target Organ Toxicity – Single Exposure | Category 3  | Transient target organ effects.   |

#### 2.2) Labelling in Accordance with – GHS (REV.8) (2019) standards

##### 2.2.1) Hazard Pictograms:

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GHS08, GHS05, GHS07.

#### 2.2.2) Signal Word: DANGER

#### 2.2.3) Codification of Physical, Health and Environmental Hazard Statements (H-codes)

H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation. (Harmful if inhaled)
H350	May cause cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)

#### 2.2.4) Codification of Precautionary Statements (P-codes)

P102	Keep out of reach of children.
P264	Wash hands, eyes, face, and any other contacted body part thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P261	Avoid breathing dust/fumes/gas/mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P203	Obtain, read, and follow all safety instructions before use.

#### 2.2.4.1) Responses

P302 + P361 + P354	IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes.
P321	Specific treatment (see ... on this label)
P332 + P317	If skin irritation occurs: Get medical help.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P305 + P354 + P338	IF IN EYES: Immediately rise with water for several minutes. Remove contact lenses, if present and easy to do Continue rinsing.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P319	Get medical help if you feel unwell.
P317	Get medical help.
P318	If exposed or concerned, get medical help.

#### 2.2.4.2) Storage

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.

#### 2.2.4.3) Disposal

P501	Dispose of contents/container in accordance with local/ regional/ national/ international regulations.
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### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	: CALCIUM OXIDE	CAS NO.	: 1305-78-8
Chemical Formula	: CaO	EC NO.	:

### SECTION 4: FIRST-AID MEASURES

#### **4.1) Description of Necessary First Aid Measures.**

Upon Inhalation	Take the victim away from exposure to fresh air. Remove all the contaminated clothes. Take rest until fully recovered. If breathing is difficult seek medical advice immediately.
Upon Skin Contact	Upon contact with hair/skin thoroughly wash skin and hair in running water for 15 minutes. Remove all the contaminated clothes. Seek medical assistance if skin irritation, blisters, redness or swelling occurs. Don't reuse the clothes before thoroughly washing.
Upon Eye Contact	Immediately rush to wash the eyes with running fresh water for 15 minutes. Expose entire eye - wash under the eyelids and clean thoroughly with water. Remove contact lenses if present after the initial 5 minutes of washing and continue rinsing eye. Seek medical advice immediately.
Upon Ingestion	Thoroughly clean the mouth with water. Do not induce vomiting upon swallowing. Drink a few glasses of water and consult a doctor immediately.

#### **4.2) Most Important Symptoms/Effects.**

Upon Inhalation	Irritation in nose, coughing, runny nose, headache, breathing difficulties and sore throat.
Upon Skin Contact	Irritation, redness on contacted area. May cause dermatitis, blisters or swelling upon prolonged exposure.
Upon Eye Contact	Causes serious irritation, redness, burning sensation, pain, infection.
Upon Ingestion	Respiratory track irritation, sore throat, nausea, vomiting. May cause ulcers, inflammation and burning in oesophagus or stomach.

#### **4.3) Indication of immediate medical attention and special treatment needed, if necessary**

Treat as per the visible symptoms.

### SECTION 5: FIRE- FIGHTING MEASURES

#### **5.1) Suitable extinguishing media.**

Use dry chemical fire extinguisher. Do not use water or halogenated compounds, except that large amounts of water may be used to deluge small quantities of this product.

#### **5.2) Specific hazard arising from the chemicals.**

Inhalation, skin, or eye contact can result in serious injury. This product is not combustible or flammable. This product is not considered to be an explosion hazard, although reaction with water or other incompatible materials may rupture containers. When this product is wet, it can be very slippery and can result in a slip hazard.  
 Hazardous Combustion Products: None

#### **5.3) Special protective actions for fire-fighters.**

Wear full fire-fighting turn-out gear (full Bunker gear), and respiratory protection (SCBA) to prevent inhalation, skin, or eye contact.



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### SECTION 6: ACCIDENTAL RELEASE MEASURE.

#### 6.1) Personal Precautions, Protective Equipment and Emergency Procedure.

Avoid inhalation, eye, and skin contact. Avoid generating airborne dust. Wear appropriate protective clothing as described in section 8.

#### 6.2) Methods and Materials for Containment and Cleaning Up.

Utilize clean-up methods that minimize generating dust: vacuum. Avoid dry sweeping. Residue on surfaces may be removed with copious amount of water or vinegar.

### SECTION 7: HANDLING AND STORAGE.

#### 7.1) Precautions for safe handling.

Avoid inhalation, skin, and eye contact. Avoid generating airborne dust. An eye wash station should be readily available when this product is handled.

#### 7.2) Conditions of Safe Storage, Including Any Incompatibilities.

Keep in tightly closed containers. Protect containers from physical damage. Store in a cool, dry, and well-ventilated location. Do not store near incompatible materials (see Section 10 below). Keep away from moisture. Long-term storage in aluminium containers is not recommended, as calcium oxide may corrode aluminium over long periods of time

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.

#### 8.1) Control parameters.

Regulatory exposure limits:

	OSHA PEL (mg/m <sup>3</sup> )	ACGIH TLV (mg/m <sup>3</sup> )	Ont. Reg. 833 TWAEV (mg/m <sup>3</sup> )
CALCIUM OXIDE	15 (total), 5 (respirable)	5	5

#### 8.2) Appropriate engineering controls

Use with adequate general or local exhaust ventilation and to maintain exposure below occupational exposure limits.

#### 8.3) Individual protection measures such as personal protective equipment (PPE).

Eye/face protection	: Protect eyes with protective chemical glasses that does not allow the air to pass. Keep safety eye-washer/safety shower for emergency usage.
Skin protection	: Wear full body protective clothing to minimize the contact with skin. Wear easily available industrial coveralls to avoid exposure of skin with the product. Wear impervious gloves to cover hand. Wear protective boots. Re-use everything after thoroughly washing it.
Respiratory protection	: Wear a N95 mask to cover the mouth and nose to avoid dust particles to enter the respiratory track. During emergency where fumes are produced
Protection type	: PVC, Butyl or Natural rubber or Nitrile for gloves, boots, and apron/protective suit.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES AND SAFETY CHARACTERISTICS.

- Physical State/ Appearance : Powder
- Auto-Ignition Temperature : Not Available

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• <b>Colour</b>	: White	• <b>Decomposition Temperature</b>	: Not Available
• <b>Odour</b>	: Not applicable	• <b>pH</b>	: 12.45 at 25°C
• <b>Melting Point</b>	: 580°C	• <b>Kinematic Viscosity</b>	: Not Available
• <b>Boiling Point</b>	: 2850°C	• <b>Solubility</b>	: Slightly soluble in water: 0.2% @ 0°C. Soluble in acids, glycerine, and sugar solutions
• <b>Flammability</b>	: Not available	• <b>Partition Coefficient N-Octanol/Water (Log Value)</b>	: Not available.
• <b>Flammability Limit</b>	: Not available	• <b>Vapour Pressure</b>	: Not available
• <b>Flash Point</b>	: Not available	• <b>Density</b>	: 2.24
• <b>Relative Vapour Density</b>	: Non-Volatile	• <b>Particle Characteristics.</b>	: Not available

## SECTION 10: STABILITY AND REACTIVITY.

### 10.1) Reactivity

Reacts with acids to form calcium salts, releasing heat. Reacts with carbon dioxide in air to form calcium carbonate. See also Incompatibility below.

### 10.2) Chemical Stability

Stable under normal storage and handling conditions.

### 10.3) Possibility of hazardous reactions

See "reactivity" above.

### 10.4) Conditions to avoid

Vicinity of incompatible materials.

### 10.5) Incompatible materials

This product should not be mixed or stored with the following materials, due to the potential for violent reaction and release of heat:

- acids
- reactive fluoridated compounds
- reactive brominated compounds
- reactive powdered metals
- reactive phosphorous compounds
- aluminium powder
- organic acid anhydrides
- nitro-organic compounds
- interhalogen compounds



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### SECTION 11: TOXICOLOGY INFORMATION.

- a) **Acute toxicity:** No data available.
- b) **Skin irritation:** Contact can cause severe irritation or burning of skin, especially in the presence of moisture.
- c) **Serious eye irritation:** Contact can cause severe irritation or burning of eyes, including permanent damage.
- d) **Respiratory or skin sensitization:** No data available.
- e) **Germ cell mutagenicity:** No data available.
- f) **Carcinogenicity:** This product is not listed as carcinogenic by OSHA, IARC, NTP, ACGIH, or the EU Directives. This product may contain trace amounts of crystalline silica quartz which is listed by IARC as "Carcinogenic to Humans" (Group 1) and "Known to be a Human Carcinogen" by NTP (National Toxicology Program).
- g) **Reproductive toxicity:** No data available
- h) **STOT-single exposure:** No data available.
- i) **STOT-repeated exposure:** No data available
- j) **Aspiration hazard:** No data available

### SECTION 12: ECOLOGICAL INFORMATION.

Because of the elevated pH of this product, it might be expected to produce some ecotoxicity upon exposure to certain aquatic organisms and aquatic systems in high concentrations This material shows no bioaccumulation effect or food chain concentration toxicity.

### SECTION 13: DISPOSAL CONSIDERATIONS.

Dispose of contents in accordance with federal, state, provincial and local regulations.

### SECTION 14: TRANSPORT INFORMATION.

#### Air Transport Association (IATA).

UN-Number : No data available  
 UN Proper Shipping Name  
 Transportation Hazard Class  
 Packing Group

#### International Maritime Dangerous Goods Code/International Maritime Organization (IMDG/IMO).

UN-Number : No data available  
 UN Proper Shipping Name  
 Transportation Hazard Class  
 Packing Group  
 Environmental Hazards  
 Labels

#### Department of Transportation (DOT).

UN-Number : No data available  
 UN Proper Shipping Name  
 Transportation Hazard Class  
 Packing Group  
 Emergency response guidebook number



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### Transport of Dangerous Goods (TDG).

**UN-Number** : No data available

**UN Proper Shipping Name**

**Transportation Hazard Class**

**Packing Group**

## SECTION 15: REGULATORY INFORMATION.

### EU regulations:

Chemical Name	CAS No.	EINECS	UN Number
CALCIUM OXIDE	1305-78-8	231-908-7	2880

- **CERCLA Hazardous Substances:** Not listed
- **SARA Toxic Chemical (40 CFR 372.65):** Not listed
- **SARA Section 302 Extremely Hazardous Substances (40 CFR 355):** Not listed
- **SARA 311/312:** Not listed
- **SARA Section 313 Toxic Chemicals reporting requirements:** None
- **Threshold planning quantity (TPQ):** Not listed
- **RCRA Hazardous Waste Classification (40 CFR 261):** Not Classified
- **EPA Toxic Substances Control Act (TSCA) Status:** The components of this product are each listed on the TSCA Inventory List in the "active" status.
- **California Proposition 65:** Airborne crystalline silica particulates of respirable size are known to the State of California to cause cancer.
- **NFPA ratings Health:** 3 Fire: 0 Reactivity: 0
- **HMIS Ratings Health:** 3 Fire: 0 Reactivity: 0 Personal protection: E
- **OSHA Specifically regulated substance (29 CFR 1910):** Not listed
- **OSHA Air contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A):** Listed
- **MSHA:** Not listed
- **Canada DSL:** Listed
- **Canadian WHMIS Classification:** D2A, Materials Causing other toxic effects. E, Corrosive Material
- **Canada CPR:** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation of a Canada and this SDS contains all the required information.

## SECTION 16: OTHER INFORMATION.

**Source of data:** United Nations Publications. (2019). *Globally Harmonized System of Classification and Labelling of Chemicals (GHS)* (Eighth Revised ed.). United Nations.

[https://unece.org/fileadmin/DAM/trans/danger/publi/ghs/ghs\\_rev08/ST-SG-AC10-30-Rev8e.pdf](https://unece.org/fileadmin/DAM/trans/danger/publi/ghs/ghs_rev08/ST-SG-AC10-30-Rev8e.pdf)

### Disclaimer:

The safety data sheet is prepared by Jal Aqua International to the best of its knowledge. All the information present in the SDS is obtained from verified technical sources and verified literature source to the best knowledge at the date of issue. Jal Aqua International cannot control or foresee on how the product is used. Everyone accessing the product must be aware about the risks and take required precautions to use the material. Jal Aqua International shall be responsible for damage caused to the consumer in terms to handle, storing, disposing and using the product. Contact Jal Aqua international for any information regarding the SDS. The SDS applies to the direct users of the product. The SDS shall be considered valid if the product is used for mixing other substances or chemicals.



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**END OF SDS**